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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/992,790

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Haihong Zheng

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EXAMINER

EL CHANTI, HUSSEIN A

ART UNIT

PAPER NUMBER

2157

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DELIVERY MODE

06/01/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

SUPPLEMENTAL ACTION

Office Action Summary

Application No. 09/992,790	Applicant(s) ZHENG, HAIHONG	
Examiner Hussein A. El-chanti	Art Unit 2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to RCE received on March 9, 2007. Claims 1 and 17 were amended. Claims 1-20 are pending examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Karagiannis, U.S. Patent No. 6,925,075 (referred to hereafter as Kara).

As to claims 1 and 17, Kara teaches an apparatus and method for facilitating network-initiated bearer setup of a bearer between a first communication node and a correspondent node through operation of a selected bearer manager, wherein communication node is selectably operable to communicate by way of a communication network with the correspondent node, the selected bearer manager having a network address identifying a network location comprising:

a first bearer setup request generator associated with a first application-level entity, said first bearer setup request generator configured to generate a first application-level bearer setup request and to provide the first application-level bearer setup request to a transport-level entity (see col. 6 lines 14-45),

the first bearer setup request for requesting the selected bearer manager to create the bearer between the communication node and the correspondent node, and the first bearer setup request, when generated at the first application-level entity, free of the network address identifying network location of the selected bearer manager (see col. 6 lines 14-45).

As to claims 2 and 18, Kara teaches the apparatus of claims 1 and 17 respectively wherein the communication network comprises an application level and a transport level, where the first application-level entity forms a portion of the application level, and wherein said first bearer setup request generator forms a portion of the application level (see col. 6 lines 14-45).

As to claim 3, Kara teaches the apparatus of claim 2 wherein the first bearer setup request generated by said first bearer setup request generator is sent to the transport level (see col. 6 lines 14-45).

As to claim 4, Kara teaches the apparatus of claim 3 wherein the separate-level transport level comprises an AAA (Authentication Authorization Accounting) entity, and wherein the first bearer setup request generated by said first bearer setup request generator is sent to the AAA entity (see col. 6 lines 14-45).

As to claim 5, Kara teaches the apparatus of claim 4 further comprising a second bearer setup request generator associated with the AAA entity and coupled to receive an indication of the first bearer setup request generated by said first bearer setup request generator, said second bearer request generator for generating a transport-level bearer setup, the transport-level bearer setup request for delivery to the selected

bearer manager to request the bearer manager, when delivered thereat, create the bearer between the communication node and the correspondent node (see col. 6 lines 14-45).

As to claim 6, Kara teaches the apparatus of claim 5 wherein the communication network comprises a first network portion and at least a second network portion, the first network portion defining a home network of the mobile node and the second network portion defining a visited network of the communication node, and wherein the first application-level entity with which said first bearer setup request generator is associated and the AAA entity with which said transport-level bearer setup request generator is associated are positioned at the visited network portion (see col. 7 lines 25-64).

As to claim 7, Kara teaches the apparatus of claim 5 wherein the communication network comprises a first network portion and at least a second network portion defining a home network of the communication node and the second network portion defining a visited network portion, wherein the at least the first application-level entity comprises a first application server and a second application server, the second application server also forming a portion of the application level, the second application server associated with the visited network portion and the first application server associated with the home network portion, said first bearer setup request generator for generating the first bearer setup request responsive to an application-level provided thereto (see col. 7 lines 25-64).

As to claim 8, Kara teaches the apparatus of claim 7 wherein the A.A_& entity comprises a home-network AAA entity and a visited-network AAA entity, and wherein the first bearer setup request is set by said first bearer setup request generator to the home-network AAA entity (see col. 7 lines 25-64).

As to claim 9, Kara teaches the apparatus of claim 8 wherein said second bearer setup request message generator generates the transport-level bearer setup request by way of the visited-network AAA entity to the selected bearer manager (see col. 7 lines 25-64).

As to claim 10, Kara teaches the apparatus of claim 9 wherein the transport-level bearer setup request message generated by said second bearer setup request message comprises an A_AA-protocol message (see col. 7 lines 25-64).

As to claim 11, Kara teaches the apparatus of claim 10 wherein the selected bearer manager to which the transport-level bearer request is delivered generates a response message, and wherein said second bearer setup request generator further detects the response message (see col. 7 lines 25-64).

As to claim 12, Kara teaches the apparatus of claim 11 wherein the response message generated by the selected bearer forms an AAA-protocol message (see col. 4 lines 15-45).

As to claim 13, Kara teaches the apparatus of claim 11 wherein said second bearer setup request generator further returns an indication of the response message to said first bearer setup request generator (see col. 7 lines 25-64).

As to claim 14, Kara teaches the apparatus of claim 13 wherein said first bearer setup request message generator further generates an application-level message for communication to the mobile node, file application-level message indicative of response message generated by the selected bearer manager (see col. 6 lines 33-56).

As to claim 15, Kara teaches the apparatus of claim 1 wherein the communication system comprises radio communication system and the communication node comprises a mobile node, wherein the communication network comprises a first network portion and at least a second network portion, the first network portion defining a home network of the mobile node and file second network portion defining a visiting network of the mobile node, wherein the first application-level entity comprises a home-network application server and wherein said first bearer setup request generator is associated with the home-network server (see col. 7 lines 25-64).

As to claim 16, Kara teaches the apparatus of claim 1 wherein the communication system comprises a radio communication system and the communication node comprises a mobile node, where the communication network comprises a first network portion and at least a second network portion, the first network portion defining a home network of the mobile node and the second network portion defining a visited network of the mobile node, where the first application-level entity comprises a visited-network application server, and wherein said first bearer setup request generator is associated with the visited-network server (see col. 7 lines 25-64).

As to claim 19, Kara teaches the method of claim 18 further comprising the additional operation of routing, from the transport-level entity, a separate-level signaling-layer request signal to the selected bearer manager (see col. 7 lines 25-64).

As to claim 20, Kara teaches the method of claim 19 further comprising the operation of returning a bearer-manager response message to the first application server (see col. 7 lines 25-64).

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hussein A. El-chanti whose telephone number is (571)272-3999. The examiner can normally be reached on Mon-Fri 8:30-5:00.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571)272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2157

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hussein Elchanti

April 12, 2007


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